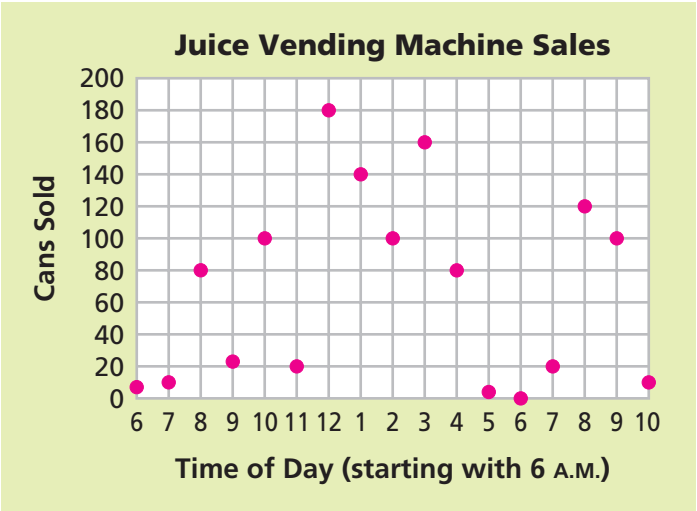
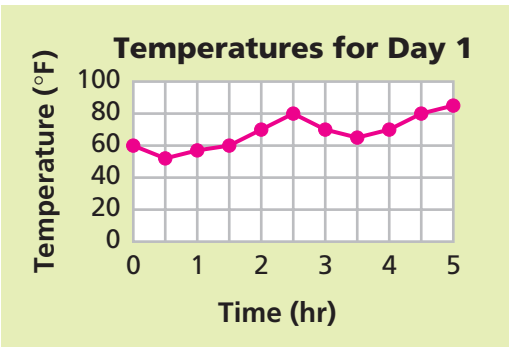
7. On the x-axis of the graph below, 6 means the time from 5:00 to 6:00, 7 means the time from 6:00 to 7:00, and so on.



a. The graph shows the relationship between two variables. What are the variables?

b. Describe how the number of cans sold changed during the day. Explain why these changes might have occurred.

8. Here is a graph of temperature data collected on the students' trip from Atlantic City to Lewes.



a. This graph shows the relationship between two variables. What are they?

b. Make a table of data from this graph.

c. What is the difference between the day's lowest and highest temperatures?

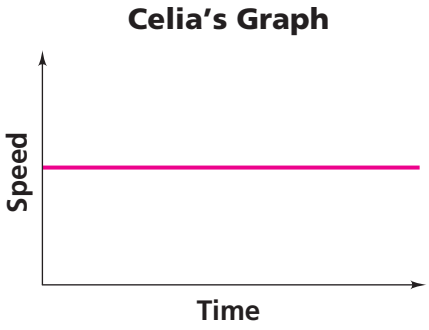
d. During which time interval(s) did the temperature rise the fastest? During which time interval did it fall the fastest?

e. Is it easier to use the table or the graph to answer part (c)? Why?

f. Is it easier to use the table or the graph to answer part (d)? Why?

g. What information can you get from the lines connecting the points? Do you think it is accurate information? Explain.

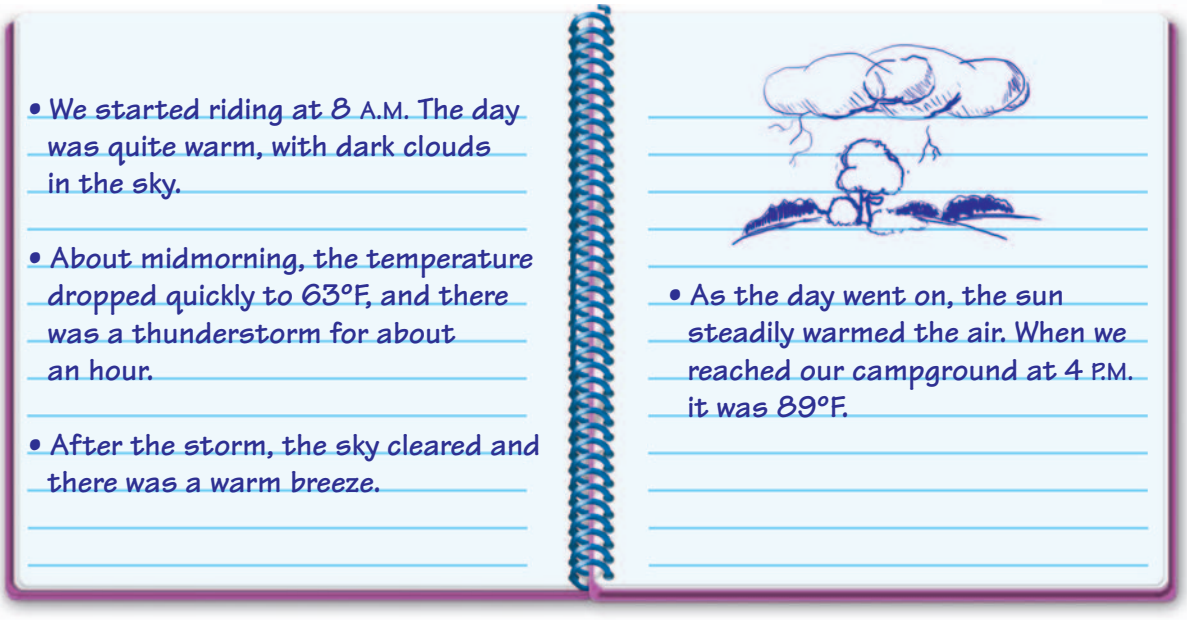
9. Here is a graph Celia drew on the bike trip.



a. What does this graph show?

b. Is this a reasonable pattern for the speed of a cyclist? Is this a reasonable pattern for the speed of the van? Is this a reasonable pattern for the speed of the wind? Explain each of your conclusions.

10. Make a table and a graph of (*time*, *temperature*) data that fit the following information about a day on the road:



11. When Ben first started to play the electric guitar, his skill increased quite rapidly. Over time, Ben seemed to improve more slowly.

a. Sketch a graph to show how Ben's guitar-playing skill progressed over time since he began to play.

b. Your graph shows the relationship between two variables. What are those variables?

c. What other variables might affect the rate at which Ben's playing improves?